

Head-worn microphone  
Handfree use  
Intercom Systems  
Lectern

- Hypercardioid polar pattern
- Lightweight headworn microphone with smooth, articulate sound
- Outstanding gain-before-feedback and isolation
- CM-312A has battery/phantom belt back
- CM-312AE connects to most wireless transmitters (Mini-XLR)

# CM-312A CM-312AE



The CM-312AE is rugged, lightweight head worn microphone designed for aerobics, live entertainment, and sports broadcasting. It is intended for wireless-mic application that require a light, inconspicuous mic.

Because the microphone is to the side of the mouth, breath pops are eliminated. The sound of the CM-312AE can be tailored to taste by moving the microphone closer or farther from the corner of the mouth.

The CM-312AE sounds like the best handheld microphones. Its hypercardioid pickup pattern reduces feedback and aids isolation. In difficult situations, the CM-311AE head worn mic is recommended because it picks up even less feedback and leakage than the CM-312AE.

Designed for comfort, the headband fits behind the head and disappears in use. Both the headband and boom adjust to fit any head. Because of the boom's unique behind-the-ear design, it does not cover up the user's face.

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## How to adjust for best fit and to prevent boom bounce

Note: To get the maximum performance out of this microphone, take the time to adjust it to fit correctly.

For best results, the CM-311A MUST be custom fitted to a single user's head. This simple procedure takes only a few minutes.

1. If the microphone is for yourself, we suggest that you use a mirror to double check the fit as you make adjustments.

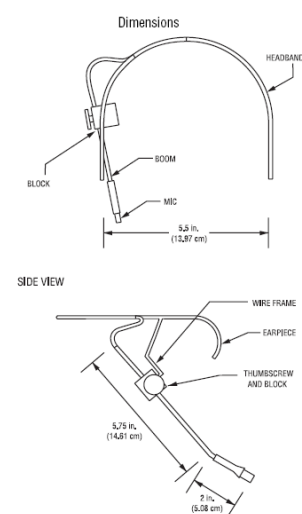
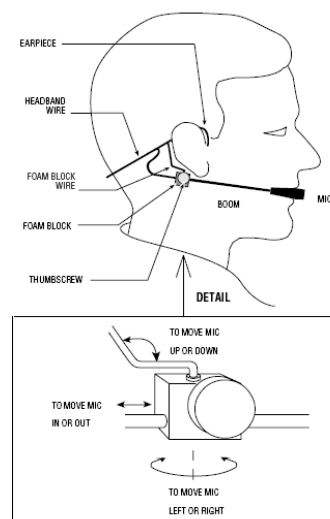
2. Loosen (just a little) the thumbscrew located on the outside of the foam block, part way back on the boom. This allows the boom to slide in and out, and to rotate left and right.

3. Now bend the headband wire to fit your head. Put the foam-block wire behind your ear.

Then you can bend the earpieces to fit snugly around your ears. The back of the headband should fit firmly against the back of your neck.

4. Next, adjust the foam pad snug against your head or neck. To do this, bend the wire that goes into the foam block. CAUTION! Do not bend the boom itself—just the foam-block wire. A snug fit of the foam pad prevents boom bounce when you move around.

5. Be sure that the thumbscrew is still loosened a little. Move the boom in or out, and left or right, to center the mic directly in front of your lips. The foam pop filter should press firmly against the lips. This is necessary because the mic cancels sounds that are not close to it. Also, it keeps the boom from bouncing. Tighten the thumbscrew and you're done. Once you've adjusted the headset, it should remain in that position -- no further adjustments are needed. You can still swing the mic up or down, away from your lips, if you don't want to be heard on the P.A.



## Architects' and Engineers' Specifications

The microphone shall be the Crown Model CM-312AE or equivalent.

The microphone shall be a head worn hypercardioid type of electret-condenser design. The microphone shall exhibit excellent off-axis response and gain-before-feedback. The microphone shall have an adjustable headband, adjustable boom with locking thumbscrew, and foam pop filter.

The microphone shall have a 45-inch (1.14-m), permanently attached, two-conductor shielded unterminated cable that can be connected to a transmitter. Powering shall be 3-9V from the transmitter.

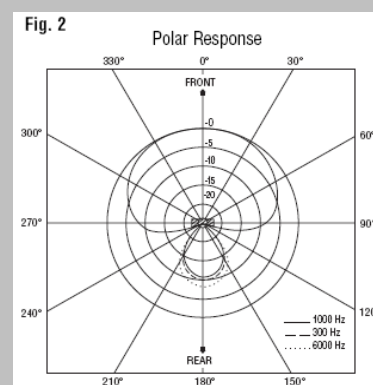
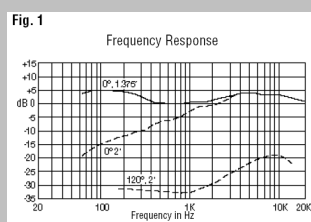
Nominal open-circuit sensitivity shall be 2.9 mV/Pa. Maximum SPL shall be 148 dB SPL for 3% THD. Equivalent noise shall be 31 dBA nominal. Frequency response shall be 50 Hz to 17,000 Hz with a uniform off-axis response, over 20 dB down at the rear nulls.

The Crown model CM-312AE is specified.

## Specifications:

<b>Polar pattern:</b>	hypercardioid
<b>Frequency response:</b>	50 to 17,000 Hz
<b>Impedance:</b>	6 kilohms
<b>Equivalent noise level:</b>	31 dB-A
<b>Maximum SPL:</b>	148 dB
<b>Cable:</b>	1,14 m (45 in.)
<b>Finish:</b>	satín black
<b>Net weight:</b>	43g (1.5 oz)

<b>Item number:</b>	CM-312A	6000H50160
	CM-312 AE	6000H50170



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